

Colorado MCH Trend Analysis 2012

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Boreas Pass

What is the state trend analysis?

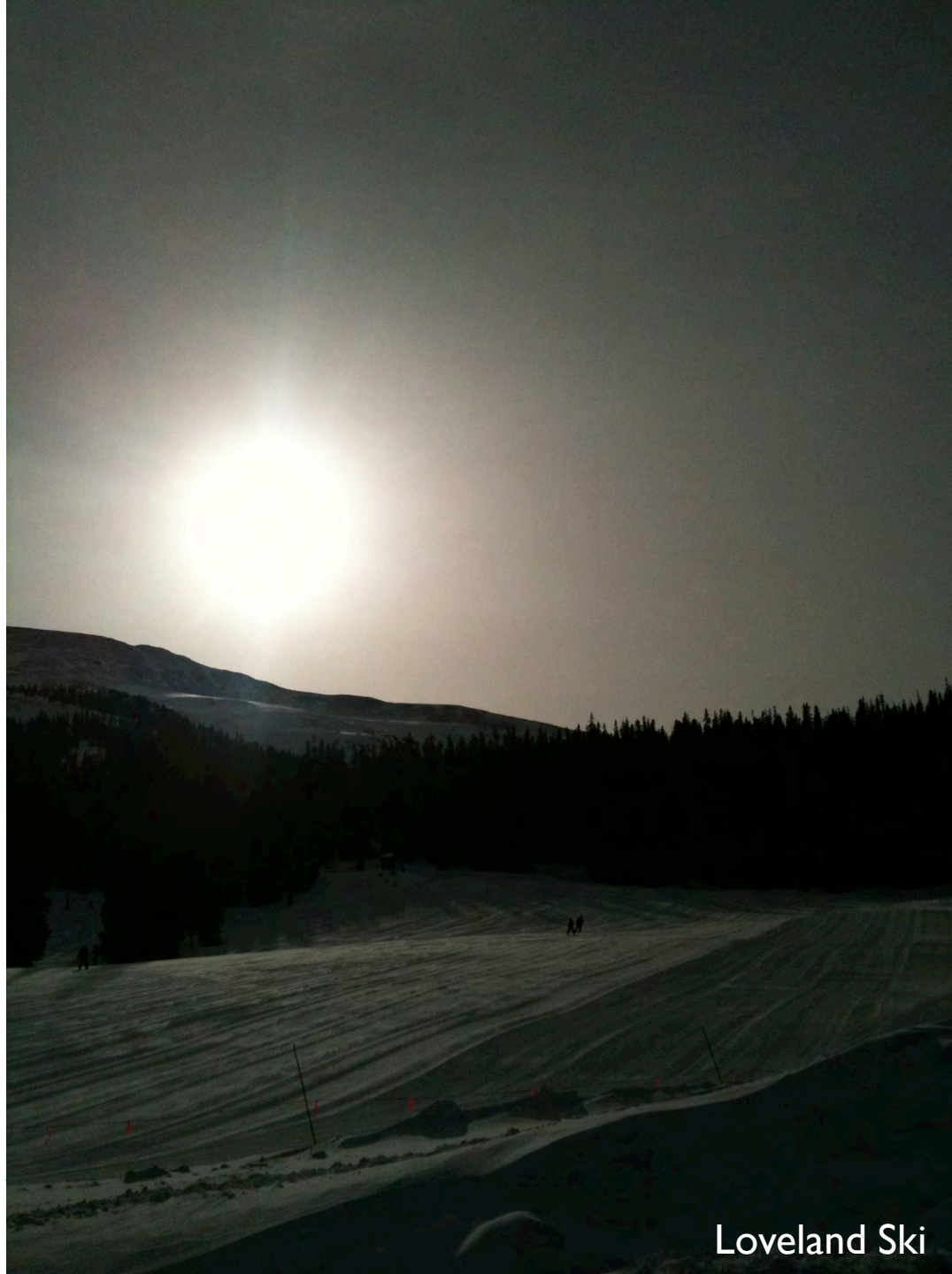
- ▶ **A spreadsheet that shows**
 - ▶ Short term and long term trends in maternal and child health indicators
 - ▶ Healthy People 2020 and Colorado 2020 targets
 - ▶ Progress
 - ▶ Problems
- ▶ **Everything you want to know about 49 indicators**
 - ▶ Preconception/prenatal
 - ▶ Infants
 - ▶ Children
 - ▶ Teens
 - ▶ Oral health



State of Colorado Trend Analysis, 2012
Progress Toward Healthy People 2020 Targets or Colorado 2020 Targets

| Maternal and Child Health Indicator | Source | Healthy People 2020 Target | Year | | | | | | Short Term Trend: 2006 to 2010 | Long Term Trend: Percent Change 2000 to 2010 | 2010 Position Relative to 2020 Target |
|--|--------|----------------------------|------------------|-------|-------|-------|-------|--------------------|--------------------------------|--|---------------------------------------|
| | | | 2000 | 2006 | 2007 | 2008 | 2009 | 2010 | | | |
| Preconception/Prenatal | | | | | | | | | | | |
| % mothers who smoked 3 months before pregnancy | BC | 14.6% | NA | NA | 11.2% | 11.1% | 10.7% | 10.4% | Improved ^a | NA | Meets target |
| % mothers gained appropriate weight during pregnancy ^b | BC | 38% ^c | NA | NA | 31.2% | 31.6% | 32.3% | 33.1% ^d | NA | NA | Close to target |
| % mothers overweight or obese before pregnancy ^b | BC | 38% ^c | NA | NA | 35.0% | 34.8% | 35.9% | 43.2% ^d | NA | NA | Close to target |
| % mothers received adequate prenatal care | BC | 77.6% | 68.4% | 74.0% | 67.0% | 67.9% | 68.5% | 69.1% | Worse | +1.0% | Close to target |
| % births unintended | PRAMS | 33% ^c | 40% | 40% | 36% | 37% | 40% | 36% | No real change | -10% | Close to target |
| % women 18-44 mental health not good in past 30 days | BRFSS | 40% ^c | 48% | 41% | 45% | 42% | 43% | 47% | Worse | -2% | Close to target |
| % women 18-44 with any physical activity in last 30 days | BRFSS | 90% ^c | 78% | 82% | 83% | 82% | 84% | 82% | No real change | +5% | Close to target |
| % women and men 18-44 using effective birth control | BRFSS | 80% ^c | 68% ^e | 65% | NA | NA | 67% | 68% | No real change | 0% ^g | Close to target |
| % mothers who smoked during last 3 months of pregnancy | BC | 1.4% | NA | NA | 7.3% | 7.2% | 6.7% | 6.5% | Improved ^a | NA | Far from target |
| % mothers drinking alcohol last 3 months pregnancy | PRAMS | 1.7% | 9% | 11% | 11% | 11% | 11% | 12% | No real change | +29% | Far from target |
| % mothers with excessive weight gain during pregnancy ^b | BC | NA | NA | NA | 44.8% | 47.2% | 49.4% | 47.7% ^d | NA | NA | NA |
| % women 18-44 eating 5+ fruits and vegetables daily | BRFSS | NA | 23% | NA | 30% | NA | 27% | NA | NA | NA | NA |
| Unemployment rate (%), women with children under 6 | ACS | NA | NA | NA | 7% | 5% | 9% | 10% | Worse ^a | NA | NA |
| Infants | | | | | | | | | | | |
| % mothers initiating breastfeeding | PRAMS | 88% ^{c*} | 86% | 90% | 90% | 90% | 92% | 93% | No real change | +9% | Meets target |
| % mothers breastfeeding at 6 months | CHS | 60.6% | 51% ^f | 54% | 56% | 60% | 61% | 61% | Improved | +20% ^h | Meets target |
| % very low birth weight births in Level IIIs | BC | 83.7% | 74.8% | 87.5% | 87.1% | 88.3% | 87.8% | 89.2% | Improved | +19.3% | Meets target |
| Infant mortality rate | BC/DC | 6.0 | 6.1 | 5.7 | 6.1 | 6.2 | 6.3 | 5.9 | Worse | -3.3% | Meets target |
| Postneonatal mortality rate | DC | 2.0 | 1.9 | 1.3 | 1.9 | 1.8 | 2.1 | 1.6 | Worse | -15.8% | Meets target |
| Newborn hearing screening (%) | EHDI | 98% ^{c*} | 90.7% | 97.6% | 97.2% | 97.8% | 97.3% | 97.3% | Worse | +7.3% | Close to target |
| % births low birth weight | BC | 7.8% | 8.5% | 9.0% | 9.0% | 8.9% | 8.8% | 8.8% | Improved | +3.5% | Close to target |
| Neonatal mortality rate | DC | 4.1 | 4.3 | 4.4 | 4.2 | 4.4 | 4.2 | 4.3 | Improved | 0.0% | Close to target |
| Black/white infant mortality ratio | DC | NA | NA | 2.3 | 2.3 | 2.5 | 2.9 | 2.4 | Worse | NA | NA |

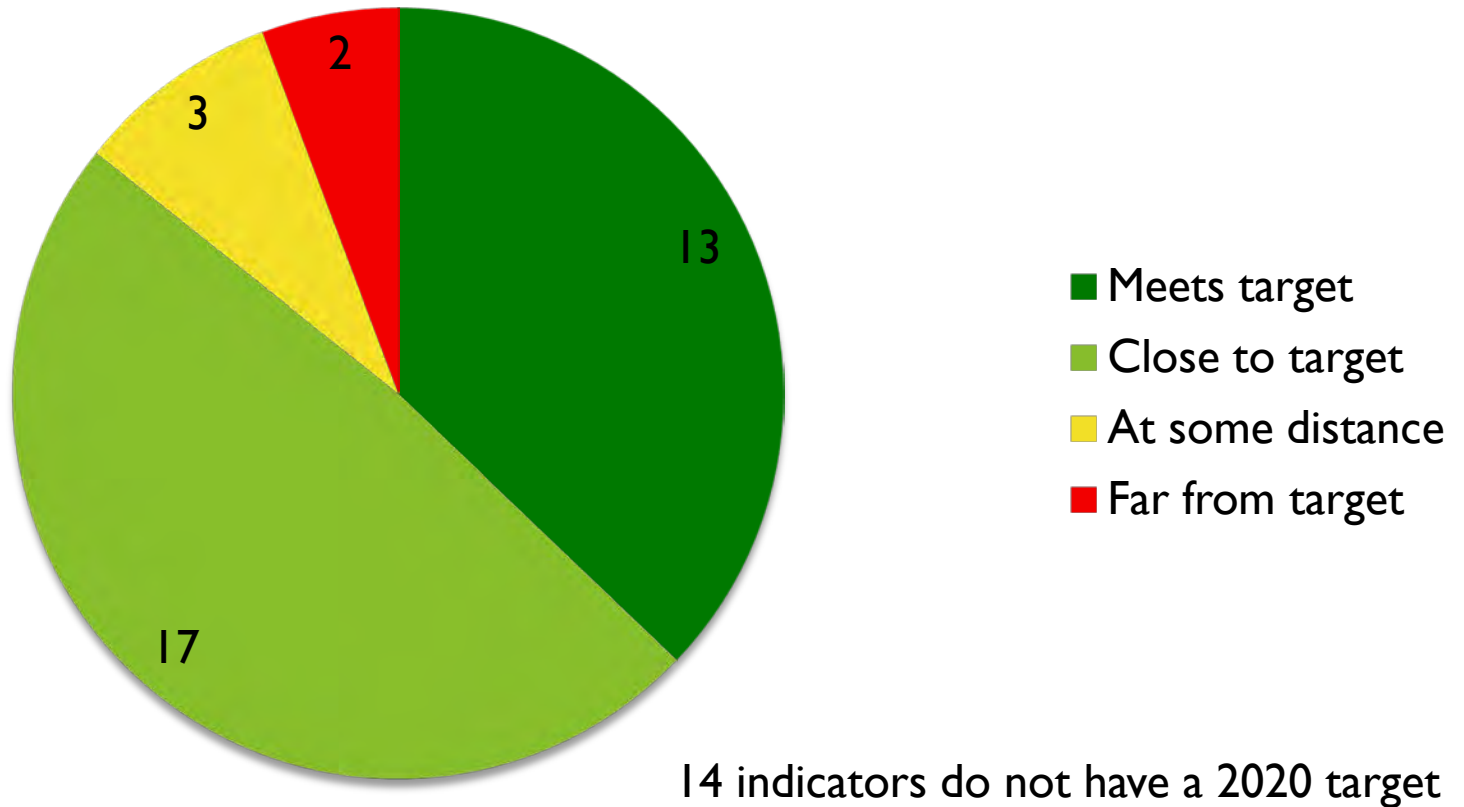




Loveland Ski

Preview

Distance to 2020 Target for 35 Indicators



Healthy People 2010 vs. 2020 Targets

| Indicator | HP 2010 Target | HP 2020 Target |
|--------------------------|-------------------|-------------------|
| Easier to Meet | | |
| Adequate prenatal care | 90.0% | 77.6% |
| Infant mortality rate | 4.5 | 6.0 |
| Low birth weight | 5.0% | 7.8% |
| Motor vehicle death rate | 9.2 | 12.4 |
| Neonatal death rate | 2.9 | 4.1 |
| Postneonatal death rate | 1.2 | 2.0 |
| Suicide death rate | 5.0 | 10.2 |
| Harder to Meet | | |
| Breastfeeding at 6 mos. | 50.0% | 60.6% |
| Child abuse rate | 10.3 | 8.5 |



2010 Data Relative to Targets

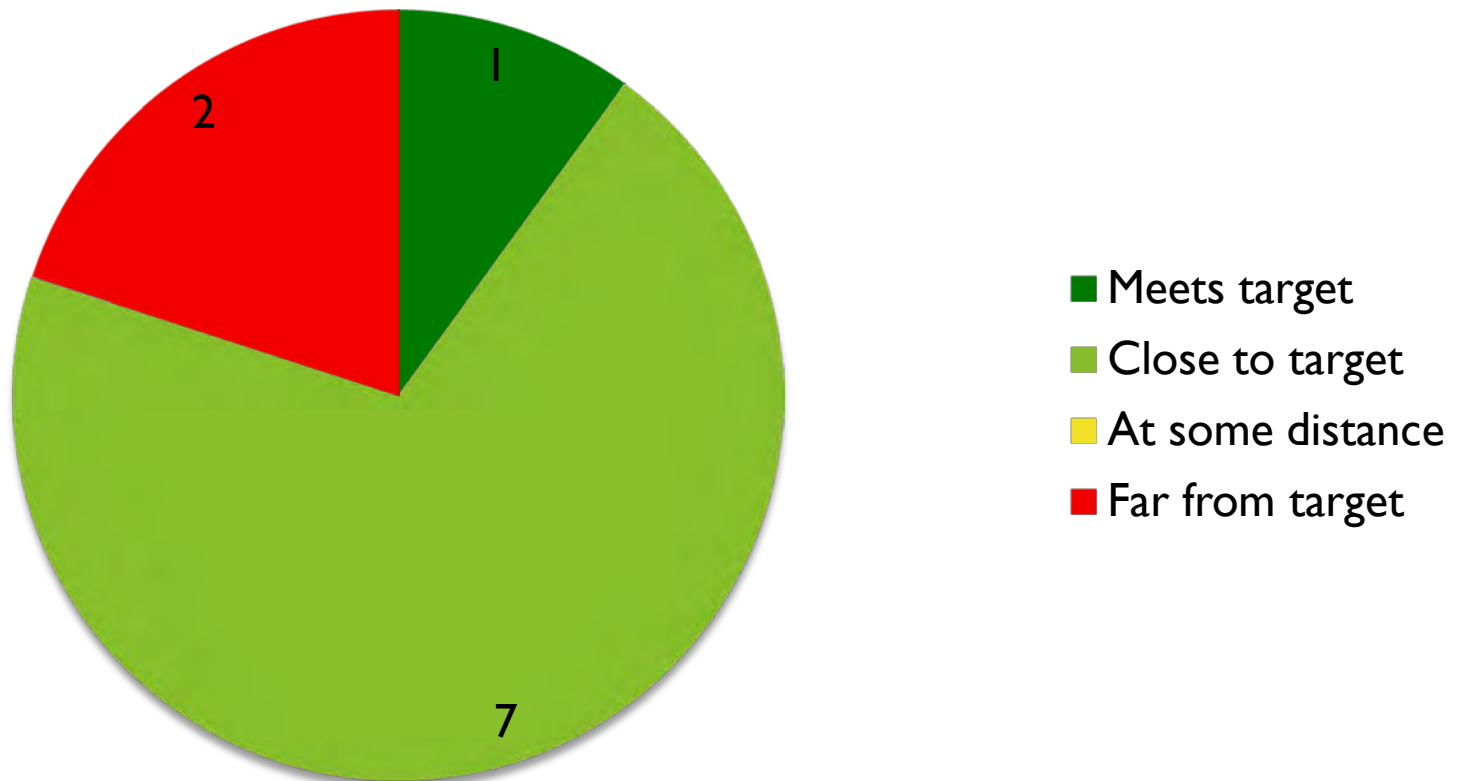
| Indicator | Distance from HP 2010 | Distance from HP 2020 |
|--------------------------|--------------------------|--------------------------|
| Easier to Meet | | |
| Adequate prenatal care | At some distance | Close to target |
| Infant mortality rate | At some distance | Meets target |
| Low birth weight | At some distance | Close to target |
| Motor vehicle death rate | At some distance | Meets target |
| Neonatal death rate | At some distance | Close to target |
| Postneonatal death rate | At some distance | Meets target |
| Suicide death rate | Far from target | Close to target |
| Harder to Meet | | |
| Breastfeeding at 6 mos. | Meets target | Meets target |
| Child abuse rate | Meets target | Close to target |



View from Mount Elbert Summit

Preconception/Prenatal

Distance to 2020 Target for 10 Indicators



3 indicators do not have a 2020 target

Preconception/Prenatal (continued)

▶ Short Term Trend

▶ Right direction

- ▶ Smoked 3 months before pregnancy
- ▶ Smoked during last 3 months of pregnancy

▶ Wrong direction

- ▶ Adequate prenatal care
- ▶ Poor mental health
- ▶ Unemployment for women with children under 6



Preconception/Prenatal (continued)

- ▶ No real change
 - ▶ Unintended births
 - ▶ Physical activity
 - ▶ Using effective birth control
 - ▶ Drinking during last 3 months of pregnancy
- ▶ Need more data to determine trends
 - ▶ Appropriate weight gain during pregnancy
 - ▶ Overweight/obese before pregnancy
 - ▶ Excessive weight gain during pregnancy
 - ▶ Fruit and vegetable consumption



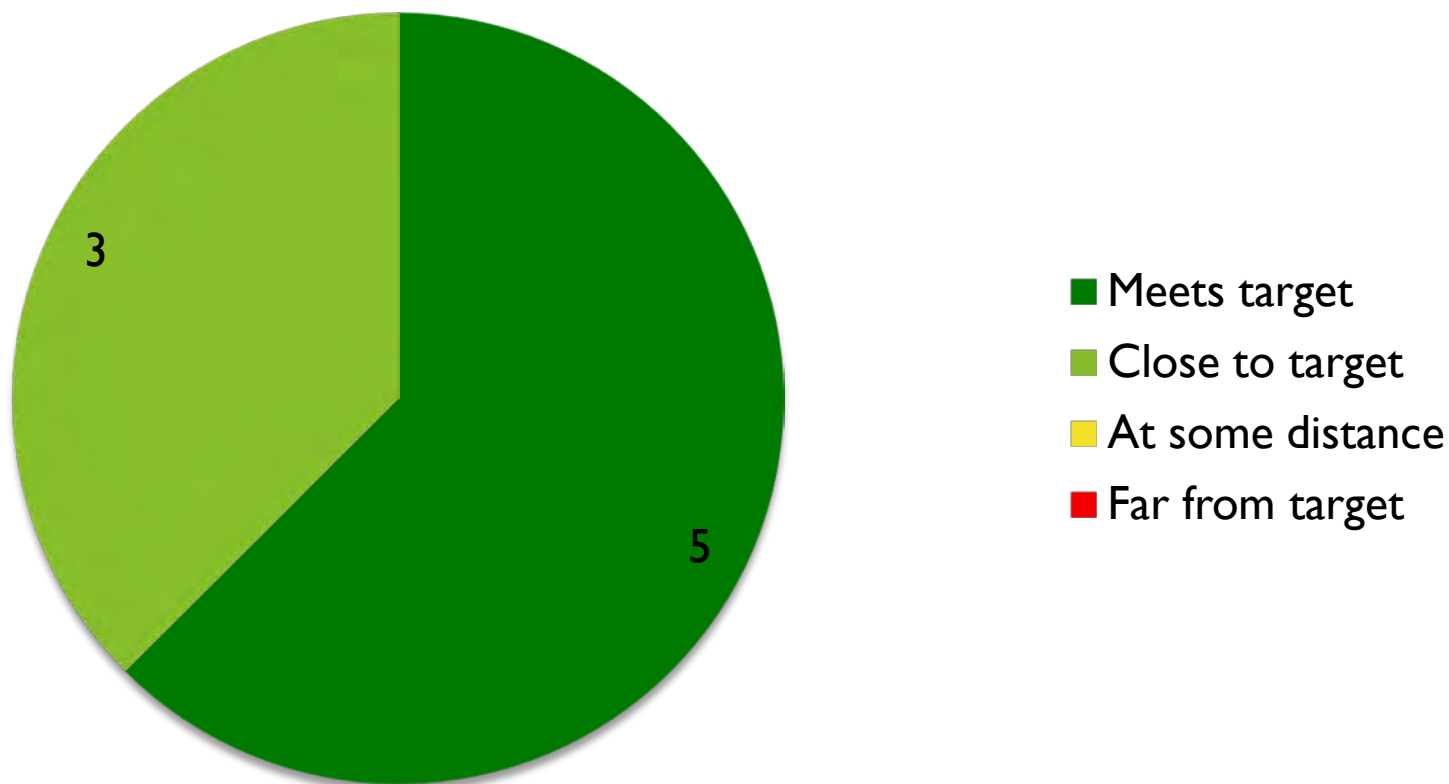
Preconception/Prenatal (continued)

- ▶ Long Term Trend
 - ▶ Unintended births improved
 - ▶ Drinking during the last three months of pregnancy worsened



Infants

Distance to 2020 Target for 8 Indicators



One indicator does not have a 2020 target

Infants (continued)

▶ Short Term Trend

▶ Right direction

- ▶ Breastfeeding at 6 months
- ▶ Very low birth weight births in level IIIs
- ▶ Low birth weight births
- ▶ Neonatal mortality rate

▶ No real change

- ▶ Breastfeeding initiation



Infants (continued)

- ▶ Wrong direction
 - ▶ Infant mortality rate
 - ▶ Postneonatal mortality rate
 - ▶ Newborn hearing screening
 - ▶ Black/White infant mortality ratio
- ▶ Long Term Trend
 - ▶ Breastfeeding at 6 months improved
 - ▶ Very low birth weight births in Level IIIs improved

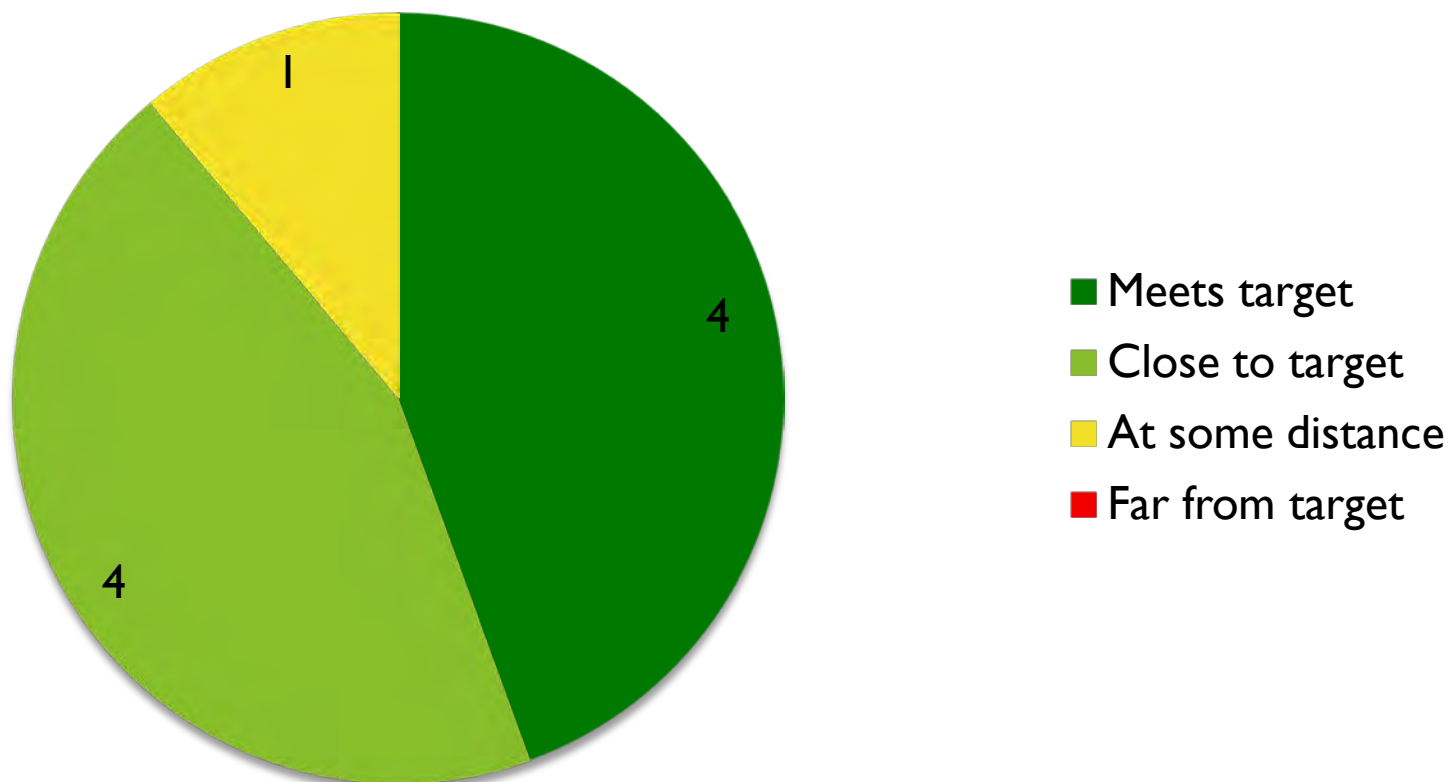




Between Ouray and Telluride

Children

Distance to 2020 Target for 9 Indicators



4 indicators do not have a 2020 target

Children (continued)

▶ Short Term Trend

▶ Right direction

- ▶ Injury hospitalization rate 0-14
- ▶ Motor vehicle death rate 0-14
- ▶ Overweight/obese children
- ▶ Child abuse rate
- ▶ Health insurance coverage
- ▶ Sugar-sweetened beverage consumption
- ▶ **Fruit and vegetable consumption**
- ▶ CHP+ enrollees
- ▶ Medicaid enrollees
- ▶ Child death rate 1-14



Children (continued)

- ▶ Mixed
 - ▶ Parents asked to fill out a questionnaire on child
- ▶ Wrong direction
 - ▶ Children 0-18 at or below 100% federal poverty level
- ▶ Need more data to determine trend
 - ▶ Children 1-14 with a medical home



Children (continued)

▶ Long Term Trend

- ▶ Injury hospitalization rate 0-14 improved
- ▶ Motor vehicle death rate 0-14 improved
- ▶ Child death rate 1-14 improved
- ▶ Children 0-18 at or below 100% federal poverty level worsened

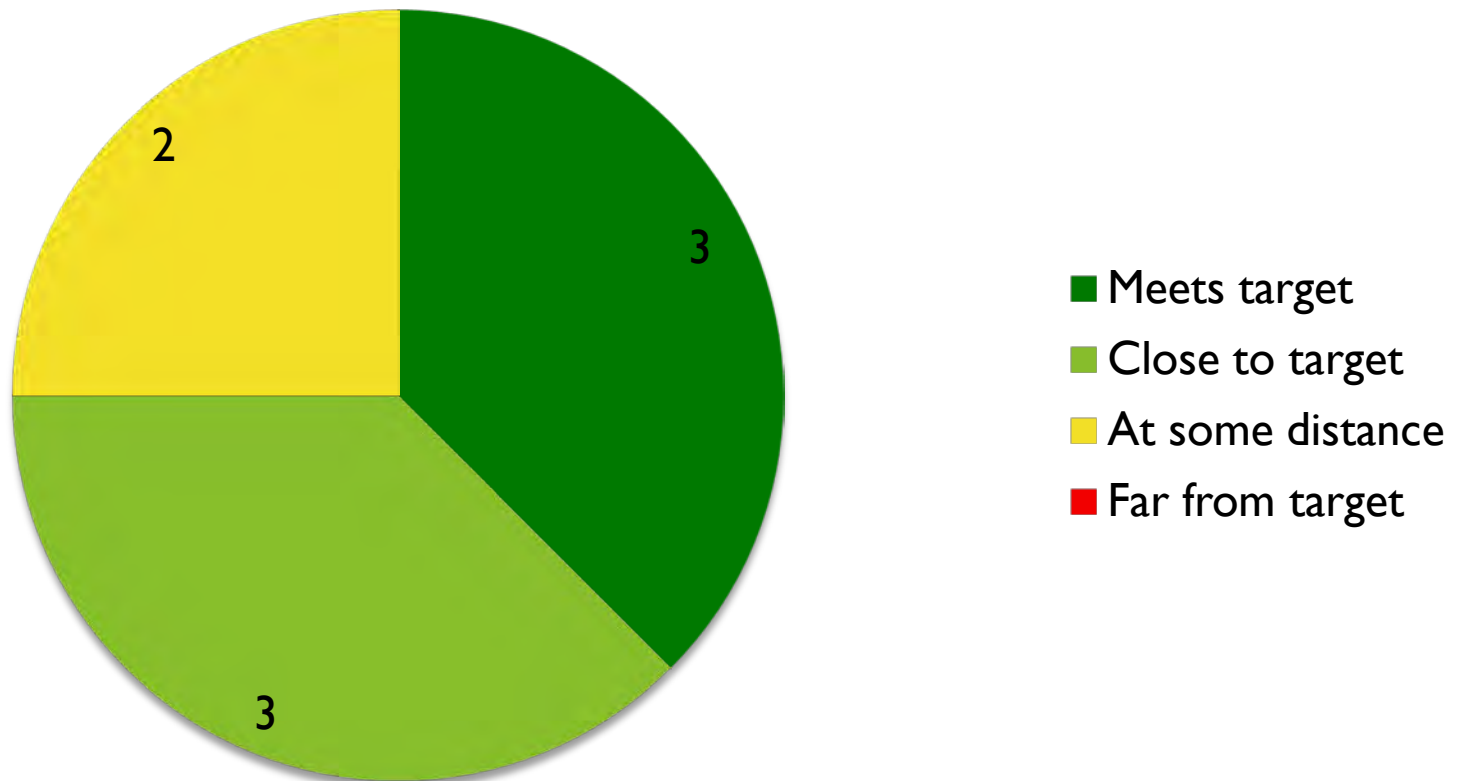




Emerald Lake, RMNP

Teens

Distance to 2020 Target for 8 Indicators



4 indicators do not have a 2020 target

Teens (continued)

▶ Short Term Trend

▶ Right direction

- ▶ Injury hospitalization rate
- ▶ Motor vehicle death rate
- ▶ Physical activity
- ▶ Using effective birth control
- ▶ Teen fertility rate

▶ Wrong direction

- ▶ Graduation rate
- ▶ Teen suicide death rate
- ▶ Chlamydia rate



Teens (continued)

- ▶ Need more data to determine trend
 - ▶ Participation in extracurricular activities
 - ▶ Sugar-sweetened beverage consumption
 - ▶ Eating breakfast every day
 - ▶ School enjoyment

▶ Long Term Trend

- ▶ Injury hospitalization rate improved
- ▶ Motor vehicle death rate improved
- ▶ Teen fertility rate improved
- ▶ Chlamydia rate worsened



Oral Health

- ▶ 2 indicators
 - ▶ No 2020 targets
- ▶ Short Term Trend
 - ▶ Right direction
 - ▶ Medicaid dental served
 - ▶ No real change
 - ▶ Children who went to a dentist by age 1

In Conclusion

Summary

- ▶ Colorado is meeting many 2020 targets already
 - ▶ But remember many are easier to meet now
- ▶ The majority of indicators showed improvement over the past five years (2006-2010)
- ▶ Nine indicators showed improvement since 2000; three were worse than in 2000 (where measurable)



In Conclusion (continued)

What Needs to Happen Next

- ▶ Maintain indicators meeting the targets
- ▶ Work to improve those
 - ▶ Not meeting the targets
 - ▶ Going in the wrong direction





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Data Sources

- ▶ Colorado Health and Environmental Data (CHED)
 - ▶ <http://www.chd.dphe.state.co.us/default.aspx>
- ▶ Colorado Health Information Dataset (CoHID)
 - ▶ <http://www.chd.dphe.state.co.us/cohid/Default.aspx>
- ▶ Children with Special Health Care Needs
 - ▶ <http://www.colorado.gov/cs/Satellite/CDPHE-PSD/CBON/I25I6I7590646>

Any Questions?



Near Winter Park